

[Name of Document] Claims

[Claim 1]

An information recording medium storing content, said information recording medium having a configuration in which a content management unit that is a data section area including at least any one of

content stored in an information recording medium,

a content reproduction section specification file,

a content reproduction processing program,

an application index file, and

an application execution file

is set,

any one of a data file and a program file included in said content management unit being stored as encrypted data based on an individual unit key corresponding to said content management unit.

[Claim 2]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are units set in correspondence with title information and index information of each piece of content stored in said

information recording medium and a unique content management unit and a unit key corresponding thereto are determined on the basis of the selection of said title information and said index information.

[Claim 3]

The information recording medium according to claim 2 wherein said title information and said index information are presentable to a user.

[Claim 4]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are units that are set in correspondence with a plurality of content reproduction processing programs stored in said information recording medium, and a unique content management unit and a unit key corresponding thereto are determined on the basis of the determination of said plurality of content reproduction processing programs to be executed on a reproducing apparatus on which said information recording medium is loaded.

[Claim 5]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are units

that are set in correspondence with a plurality of content reproduction section specification files stored in said information recording medium, and a unique content management unit and a unit key corresponding thereto are determined on the basis of said content reproduction section specification file selected by said content reproduction processing program to be executed on a reproducing apparatus on which said information recording medium is loaded.

[Claim 6]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are units that are set in correspondence with clip files that are a plurality of content real data storage files stored in said information recording medium, and a unique content management unit and a unit key corresponding thereto are determined on the basis of a reproduction clip file selected by said content reproduction processing program to be executed on a reproducing apparatus on which said information recording medium is loaded.

[Claim 7]

The information recording medium according to claim 1 wherein content management units set in said

information recording medium include:

a first unit including content real data stored in said information recording medium; and

a second unit not including content real data but including an application execution file corresponding to an application index file stored in said information recording medium;

said first unit and said second unit including at least one of a data file and a program file encrypted by different unit keys.

[Claim 8]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are configured as units including an application execution file and a content reproduction processing program stored in said information recording medium.

[Claim 9]

The information recording medium according to claim 1 wherein at least some of content management units set in said information recording medium are configured as units including an application execution file, a content reproduction processing file, and an application resource file for use in the execution of

said application execution file stored in said information recording medium.

[Claim 10]

The information recording medium according to claim 1 wherein some of content management units set in said information recording medium are configured as units including a content reproduction section specification file, an AV stream file as content real data to be referenced from said content reproduction section specification file, an application execution file, and an application resource file for use in the execution of said application execution file stored in said information recording medium.

[Claim 11]

The information recording medium according to claim 1 wherein a management table in which unit setting unit information, content management unit identification information, and unit key identification information are related with each other as information forming each of said content management unit is stored.

[Claim 12]

The information recording medium according to claim 1 wherein said information recording medium stores a status management table in which status information

indicative whether each of said content management units is in network independent status or network associated status is stored.

[Claim 13]

The information recording medium according to claim 12 wherein said status management table stores at least initial status information of each content management unit.

[Claim 14]

The information recording medium according to claim 12 wherein said status management table stores initial status information and current status information of each content management unit.

[Claim 15]

The information recording medium according to claim 1 wherein content use management information table storing restriction information associated with content use for each content management unit is stored.

[Claim 16]

The information recording medium according to claim 15 wherein said content use management information table records use restriction information indicative whether said content management unit is in network independent status or network associated status.

[Claim 17]

The information recording medium according to claim 15 wherein said content use management information table has information indicative that content is subject to control on the basis of externally obtainable operation control information.

[Claim 18]

The information recording medium according to claim 17 wherein said content use management information table includes information for specifying a server for obtaining said operation control information.

[Claim 19]

The information recording medium according to claim 1 wherein said information recording medium stores content for copy processing or streaming reproduction in addition to original content.

[Claim 20]

The information recording medium according to claim 19 wherein said content for copy processing or streaming reproduction has a different data format than that of said original content.

[Claim 21]

An information processing apparatus for executing reproduction of content stored in an

information recording medium, comprising:

a unit key acquisition section for identifying a content management unit including a data area selected for reproduction or execution from content or a program stored in said information recording medium so as to acquire a unit key corresponding to the identified content management unit; and

a data processing section for decrypting encrypted data included in said content management unit by use of the unit key selected by said unit key acquisition section.

[Claim 22]

The information processing apparatus according to claim 21 wherein said unit key acquisition section is configured to detect content management unit switching on the basis of a management table in which unit setting unit information, content management unit identification information, and unit key identification information are related with each other and, in accordance with the detected information, execute applicable unit key change processing.

[Claim 23]

The information processing apparatus according to claim 21 further comprising:

a renewal key information block processing section for executing said unit key acquisition processing by decrypting a renewal key information block that may be processed only with a key stored in an information processing apparatus having a legal content use right, said key being set in correspondence with said content management unit.

[Claim 24]

The information processing apparatus according to claim 23 wherein said renewal key information block acquires from an information recording medium or a networked server.

[Claim 25]

The information processing apparatus according to claim 21 further comprising:

an authentication processing section for executing authentication processing with a networked server,

wherein, upon successful authentication, said unit key acquisition section or said data processing section acquires information necessary for content reproduction including a unit key from said server.

[Claim 26]

The information processing apparatus according

to claim 21 further comprising:

a renewal key information block processing section for acquiring an authentication key to be applied to authentication processing with a networked server by decrypting a renewal key information block that may be processed only with a key set in correspondence with said content management unit and stored in an information processing apparatus having a legal content use right; and

an authentication processing section for authenticating a server by applying the authentication key obtained by the processing by said renewal key information block processing section;

wherein, upon successful authentication, said unit key acquisition section or said data processing section acquires information necessary for content reproduction including a unit key from said server.

[Claim 27]

The information processing apparatus according to claim 21 wherein said data processing section determines whether said content management unit is in network independent status or network associated status and executes content use control in accordance with a decision.

[Claim 28]

The information processing apparatus according to claim 27 wherein said content use control is executed on the basis of a content use management information table storing control information associated with use of each said content management unit.

[Claim 29]

The information processing apparatus according to claim 21 wherein said data processing section receives operation control information corresponding to content stored in said information recording medium and, in accordance with control based on the received operation control information, reproduces or copies said content stored in said information recording medium.

[Claim 30]

The information processing apparatus according to claim 21 wherein said data processing section notifies a networked server of at least one of user identifier, information processing apparatus identifier, and information recording medium identifier, receives operation control information corresponding to the notified identifier from said networked server, and, in accordance with control based on the received operation control information, reproduces or copies content stored

in said information recording medium.

[Claim 31]

An information processing method for reproducing content or executing a program stored in an information recording medium, comprising the steps of:

identifying a content management unit including a data area selected for reproduction or execution from said content or said program stored in said information recording medium;

selecting a unit key corresponding to the identified content management unit; and

decrypting encrypted data included in said content management unit to perform content reproduction processing and program execution processing use of the selected unit key.

[Claim 32]

The information processing method according to claim 31 further comprising the step of:

detecting content management unit switching on the basis of a management table in which unit setting unit information, content management unit identification information, and unit key identification information are related with each other and, in accordance with the detected information, executing applicable unit key

change processing.

[Claim 33]

The information processing method according to claim 31 further comprising the step of:

executing unit key acquisition processing by decrypting a renewal key information block that may be processed only with a key stored in an information processing apparatus having a legal content use right, said key being set in correspondence with said content management unit.

[Claim 34]

The information processing method according to claim 31 wherein said renewal key information block acquires from an information recording medium or a networked server.

[Claim 35]

The information processing method according to claim 31 further comprising the step of:

executing authentication processing with a networked server, and upon successful authentication, acquiring information necessary for content reproduction including a unit key from said server.

[Claim 36]

The information processing method according to

claim 31 further comprising the steps of:

acquiring an authentication key to be applied to authentication processing with a networked server by decrypting a renewal key information block that may be processed only with a key set in correspondence with said content management unit and stored in an information processing apparatus having a legal content use right;

authenticating a server by applying the authentication key obtained by the processing by said renewal key information block processing section; and

acquiring information necessary for content reproduction including a unit key from said server, upon successful authentication.

[Claim 37]

The information processing method according to claim 31 further comprising the step of:

determining whether said content management unit is in network independent status or network associated status and executing content use control in accordance with a decision.

[Claim 38]

The information processing method according to claim 37 wherein said content use control is executed on

the basis of a content use management information table storing control information associated with use of each said content management unit.

[Claim 39]

The information processing method according to claim 31 further comprising the step of:

receiving operation control information corresponding to content stored in said information recording medium from a networked server and, in accordance with control based on the received operation control information, reproducing or copying said content stored in said information recording medium.

[Claim 40]

The information processing method according to claim 31 further comprising the steps of:

notifying a networked server of at least one of user identifier, information processing apparatus identifier, and information recording medium identifier;

receiving operation control information corresponding to the notified identifier from said networked server; and,

reproducing or copying content stored in said information recording medium in accordance with control based on the received operation control information.

[Claim 41]

A computer program for reproducing content or executing a program stored in an information recording medium, comprising the steps of:

identifying a content management unit including a data area selected for reproduction or execution from said content or said program stored in said information recording medium;

selecting a unit key corresponding to the identified content management unit; and

decrypting encrypted data included in said content management unit to execute content reproduction processing or program execution processing by use of the selected unit key.

[Claim 42]

A server for providing a unit key to be applied to decryption of content to a reproducing apparatus for reproducing content stored in an information recording medium, comprising:

a database storing a unit key corresponding to a content management unit;

an authentication processing section for authenticating said reproducing apparatus; and

a data processing section for providing said

unit key upon successful authentication in said authentication processing section.

[Claim 43]

The server according to claim 42 further comprising:

a renewal key information block database storing a renewal key information block that may be processed only with a key stored in an information processing apparatus having a legal content use right and holds an authentication key for authentication processing as encrypted information; and

an authentication key database storing said authentication key;

wherein said authentication processing section provides said renewal key information block to a reproducing apparatus that executes content reproduction and executes authentication processing by applying the authentication key acquired from said authentication key database.